PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference									
234	FOR FURTHER ACTION See Notification of Transmittal of International Prelim Examination Report (Form PCT/IPEA/416)								
International application No.	International filing date (day)	/month/year)	Priority Date (day/month/year)						
PCT/KR 2004/003309	15 December 2004 (15.12.2004)		16 December 2003 (16.12.2003)						
International Patent Classification (IPC) or nat	ional classification and IPC								
IPC ⁸ : C07D 211/90 (2006.01)									
Applicant									
SK CHEMICALS CO. LTD.									
 This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.									
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).									
These annexes consist of a total of	f sheets	•	,						
3. This report contains indications re-	lating to the following item	s:							
I. Basis of the opin	nion								
II. Priority									
III. Non-establishme	ent of opinion with regard t	o novelty, inven	tive step and industrial applicability						
IV. Lack of unity of	invention								
	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI. Certain docume	VI. Certain documents cited								
VII. Certain defects i	VII. Certain defects in the international application								
VIII. Certain observations on the international application									
Date of submission of the demand		Date of completion of this report							
11 July 2005 (11.07.2005)		7	April 2006 (07.04.2006)						
Name and mailing address of the IPEA/AT		Authorized officer							
Austrian Patent Office			OLADV C						
Dresdner Straße 87			SLABY S.						
A-1200 Vienna		Telephone No.	1/53424/348						
Facsimile No. 1/53424/200		Tolophone 140.	1,00 in 1,010						

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/KR 2004/003309

1.		Basis of the report
1.	Wit	th regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
		the claims:
		pages, as originally filed
		pages, as amended (together with any statement) under Article 19 pages, filed with the demand
		pages, filed with the letter of
	لـــا	the drawings:
		pages, as originally filed pages, filed with the demand
		pages, filed with the letter of
	П	•
	-	the sequence listing part of the description: pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
2.	With	n regard to the language, all the elements marked above were available or furnished to this Authority in the language in
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).
3.	With preli	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
	닏	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
	ļ	the description, pages
	-	the claims, Nos
		the drawings, sheets/fig
5.	Т	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	1 11113 1	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and
- /	U.1/J.	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.
, -		order to the Tana annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/KR 2004/003309

V. Reasoned statement under Am	tiolo 25(2)						
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement							
Novelty (N)	Claims	1-11	YES				
	Claims		NO				
Inventive step (IS)	Claims		YES				
	Claims	.1-11	NO				
Industrial applicability (IA)	Claims	1-11	YES				
	Claims		NO				
Citations and explanations (Rule 70.	7)						
The present application rela	ates to	amlodipine gentisate (2,5-dihydroxy benzoate).					
The following documents a	re cons	idered relevant:					
D1 EP 244944 A2 D2 WO 0279158 A1 D3 WO 0389414 A1							

D1 discloses various pharmaceutical salts of amlodipine including mesylate, besylate. tosylate, succinate, salicylate and acetate.

D2 discloses amlodipine camsylate and D3 discloses amlodipine nicotinate.

Since none of the cited documents discloses amlodipine gentisate, the subject matter is considered as novel.

D1 discloses the salicylate salt of amlodipine, which differs from the gentisate salt only in a hydroxyl substituent in the benzene ring. Such a variation is considered to belong to routine experimentation of a person skilled in the art.

Moreover, the surprising effect of the gentisate salt is not apparent from the comparative test in the description. Although tables 6 and 7 show higher activity of the gentisate salt, the result is not comparable, since the besylate salt is a racemic mixture while the gentisate salt is an (S)-isomer. The process for the preparation of amlodipine gentisate according to claims 3-8 is a conventional technique for the preparation of acid addition salts, since it is also disclosed in D2 and D3. An inventive step cannot be acknowledged for the subject matter of the present claims.

Industrial applicability is given.